

FILE 'HCAPLUS' ENTERED AT 16:11:32 ON 06 AUG 2009

L1 458707 S RNA OR RIBONUCLEIC  
L2 705984 S ISOLATION OR PURIFICATION OR EXTRACTION OR SEPARATION  
L3 127166 S SOLID(W) (PHASE OR SUPPORT)  
L4 364544 S LITHIUM  
L5 173187 S ALKALI METAL  
L6 233 S L1 AND L2 AND L3  
L7 11 S L1 AND L2 AND L3 AND L4  
L8 4 S L1 AND L2 AND L3 AND L5

FILE 'STNGUIDE' ENTERED AT 16:11:41 ON 06 AUG 2009

FILE 'HCAPLUS' ENTERED AT 16:12:31 ON 06 AUG 2009

L9 2168835 S ISOLATION OR PURIFICATION OR EXTRACTION OR SEPARATION OR ISOL  
L10 473 S L1 AND L9 AND L3  
L11 17 S L1 AND L9 AND L3 AND L4  
L12 5 S L1 AND L9 AND L3 AND L5

FILE 'STNGUIDE' ENTERED AT 16:12:35 ON 06 AUG 2009

FILE 'HCAPLUS' ENTERED AT 16:12:49 ON 06 AUG 2009

L13 19 S L11 OR L12

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=> file hcplus
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY          SESSION
FULL ESTIMATED COST          0.88          0.88
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FILE 'HCAPLUS' ENTERED AT 16:11:32 ON 06 AUG 2009  
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FILE COVERS 1907 - 6 Aug 2009 VOL 151 ISS 6  
FILE LAST UPDATED: 4 Aug 2009 (20090804/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

HCplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s RNA or ribonucleic

```
377475 RNA
195414 RIBONUCLEIC
L1      458707 RNA OR RIBONUCLEIC
```

=> s isolation or purificaiton or extraction or separation

```
291282 ISOLATION
6 PURIFICAITION
193140 EXTRACTION
242472 SEPARATION
L2      705984 ISOLATION OR PURIFICAITION OR EXTRACTION OR SEPARATION
```

=> s solid(w) (phase or support)

```
1212483 SOLID
2007475 PHASE
573295 SUPPORT
```

L3 127166 SOLID(W) (PHASE OR SUPPORT)

=> s lithium

L4 364544 LITHIUM

=> s alkali metal

443198 ALKALI

1946780 METAL

L5 173187 ALKALI METAL  
(ALKALI(W)METAL)

=> s 11 and 12 and 13

L6 233 L1 AND L2 AND L3

=> s 11 and 12 and 13 and 14

L7 11 L1 AND L2 AND L3 AND L4

=> s 11 and 12 and 13 and 15

L8 4 L1 AND L2 AND L3 AND L5

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.85	3.73

FILE 'STNGUIDE' ENTERED AT 16:11:41 ON 06 AUG 2009  
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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jul 31, 2009 (20090731/UP).

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.07	3.80

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FILE COVERS 1907 - 6 Aug 2009 VOL 151 ISS 6

FILE LAST UPDATED: 4 Aug 2009 (20090804/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s isolation or purification or extraction or separation or isolated or purified

291282 ISOLATION  
375655 PURIFICATION  
193140 EXTRACTION  
242472 SEPARATION  
939122 ISOLATED  
466181 PURIFIED

L9 2168835 ISOLATION OR PURIFICATION OR EXTRACTION OR SEPARATION OR ISOLATED OR PURIFIED

=> s 11 and 19 and 13

L10 473 L1 AND L9 AND L3

=> s 11 and 19 and 13 and 14

L11 17 L1 AND L9 AND L3 AND L4

=> s 11 and 19 and 13 and 15

L12 5 L1 AND L9 AND L3 AND L5

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.85	6.65

FILE 'STNGUIDE' ENTERED AT 16:12:35 ON 06 AUG 2009  
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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jul 31, 2009 (20090731/UP).

=> file hcplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.07	6.72

FILE 'HCPLUS' ENTERED AT 16:12:49 ON 06 AUG 2009

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FILE COVERS 1907 - 6 Aug 2009 VOL 151 ISS 6  
FILE LAST UPDATED: 4 Aug 2009 (20090804/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s 111 or 112

L13 19 L11 OR L12

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.85	9.57

FILE 'STNGUIDE' ENTERED AT 16:12:50 ON 06 AUG 2009  
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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jul 31, 2009 (20090731/UP).

=> d 113 1-19 ti abs bib  
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L13 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Surface mediated self-assembly of solid-phase

nanoparticles for isolation of biomols.  
 AB Materials and methods for surface mediated self assembly of nanoparticles for the isolation of biomols. is provided.  
 AN 2009:859079 HCPLUS <<LOGINID::20090806>>  
 TI Surface mediated self-assembly of solid-phase nanoparticles for isolation of biomols.  
 IN Utermohlen, Joseph G.; Hogan, Michael E.; Diggins, Paul E.  
 PA Argylla Technologies, LLC, USA  
 SO U.S. Pat. Appl. Publ., 22pp., Cont.-in-part of U.S. Ser. No. 338,124.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20090182120	A1	20090716	US 2008-54325	20080324
	US 20060177855	A1	20060810	US 2006-338124	20060123
PRAI	US 2005-646155P	P	20050121		
	US 2005-701630P	P	20050722		
	US 2006-338124	A2	20060123		
	US 2007-896479P	P	20070322		

L13 ANSWER 2 OF 19 HCPLUS COPYRIGHT 2009 ACS on STN  
 TI Method for isolating viral nucleic acids  
 AB The invention relates to a method for parallel isolation of double- and single-stranded viral nucleic acids from biol. samples without separating of double-and single-stranded nucleic acids. The samples are treated with conventional lysis buffers (high salt concns., or low salt concns. or with proteolytic enzymes). The sample containing nucleic acids before lysis or after lysis or homogenization is adjusted with an acidic binding buffer containing at least one non-ionic detergent in high concentration such that the total nucleic acids are adsorbed on a solid support.

AN 2008:71854 HCPLUS <<LOGINID::20090806>>  
 DN 148:114245  
 TI Method for isolating viral nucleic acids  
 IN Hillebrand, Timo  
 PA Aj Innuscreen GmbH, Germany  
 SO PCT Int. Appl., 18pp.  
 CODEN: PIXXD2

DT Patent  
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008006865	A1	20080117	WO 2007-EP57131	20070711
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	DE 102006032610	A1	20080124	DE 2006-102006032610	20060711
	EP 2041310	A1	20090401	EP 2007-787402	20070711

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS

PRAI DE 2006-102006032610 A 20060711  
WO 2007-EP57131 W 20070711

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Solid phase extraction of RNA with  
the use of an alkaline reagent and functionalized magnetic particles  
AB Methods and materials are disclosed for rapid and simple extraction and  
isolation of nucleic acids, particularly RNA, from a  
biol. sample involving the use of an alkaline reagent followed by an acidic  
solution and a solid phase binding material (e.g.,  
magnetic particles functionalized with a tributylphosphonium NAB group and  
a cleavable arylthioester linkage) that has the ability to liberate  
nucleic acids from biol. samples, including whole blood, without first  
performing any preliminary lysis to disrupt cells or viruses. No  
detergents or chaotropic substances for lysing cells or viruses are needed  
or used. Viral, bacterial and mammalian genomic RNA can be  
obtained using the method of the invention. RNA obtained by the  
present method is suitable for use in downstream processes such as RT-PCR.

AN 2007:907280 HCAPLUS <<LOGINID::20090806>>

DN 147:251698

TI Solid phase extraction of RNA with  
the use of an alkaline reagent and functionalized magnetic particles  
IN Akhavan-Tafti, Hashem; De Silva, Renuka; Eickholt, Robert A.; Mazelis,  
Michael E.; Xie, Wenhua; Handley, Richard S.; Bray, Monica A.;  
Mastronardi, Michelle L.; O'Conner, Elizabeth A.; Siripurapu, Sarada

PA NEXGEN Diagnostics LLC, USA

SO U.S. Pat. Appl. Publ., 15pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070190526	A1	20070816	US 2007-706547	20070215
	AU 2007217092	A1	20070830	AU 2007-217092	20070216
	CA 2642883	A1	20070830	CA 2007-2642883	20070216
	WO 2007098379	A2	20070830	WO 2007-US62270	20070216
	WO 2007098379	A3	20081120		
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW		
		RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA		
	EP 1989332	A2	20081112	EP 2007-757082	20070216
		R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS		
	JP 2009527228	T	20090730	JP 2008-555501	20070216
	IN 2008KN03389	A	20090213	IN 2008-KN3389	20080819

KR 2009003219	A	20090109	KR 2008-722362	20080912
PRAI US 2006-773881P	P	20060216		
WO 2007-US62270	W	20070216		

L13 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Purification of RNA by lysis at acidic pH and capture with immobilized quaternary salts

AB Methods and materials are disclosed for rapid and simple extraction and isolation of RNA from a biol. sample involving the use of an acidic solution and a solid phase binding material that has the ability to liberate nucleic acids from biol. samples, including whole blood, without first performing any preliminary lysis to disrupt cells or viruses. No detergents or chaotropic substances for lysing cells or viruses are needed or used. Materials are lysed at an acidic pH and the liberated RNA is captured by a quaternized salt immobilized on a carrier, such as a magnetic particle. Viral, bacterial and mammalian genomic RNA can be isolated using the method of the invention. RNA isolated by the present method is suitable for use in downstream processes such as RT-PCR. Preparation of the capture moiety 4-(4-HSC6H4SCO)C6H4CH2P+Bu3.I- and its use in recovery of RNA from Escherichia coli, blood, and com. synthetic RNA preps. is described. The capture moiety may contain a labile group that can be used to release it from the carrier.

AN 2007:874274 HCAPLUS <<LOGINID::20090806>>

DN 147:228308

TI Purification of RNA by lysis at acidic pH and capture with immobilized quaternary salts

IN Akhavan-Tafti, Hashem

PA NEXGEN Diagnostics LLC, USA

SO U.S. Pat. Appl. Publ., 15pp., Cont.-in-part of U.S. Provisional Ser. No. 771,510.  
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070185322	A1	20070809	US 2007-703459	20070207
	AU 2007213693	A1	20070816	AU 2007-213693	20070208
	CA 2641615	A1	20070816	CA 2007-2641615	20070208
	WO 2007092916	A3	20071122	WO 2007-US61826	20070208
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AP, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, EA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, EP, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, OA, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1984383	A2	20081029	EP 2007-763168	20070208
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	JP 2009525761	T	20090716	JP 2008-554496	20070208
	IN 2008KN03390	A	20090213	IN 2008-KN3390	20080819
	KR 2009003205	A	20090109	KR 2008-721901	20080908
	CN 101400689	A	20090401	CN 2007-80008550	20080910
PRAI	US 2006-771510P	P	20060208		

US 2007-703459 A 20070207  
WO 2007-US61826 W 20070208

L13 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Methods for nucleic acid extraction and purification  
AB The present invention provides methods for extraction and purification of genomic

DNA and RNA. Cells are chemical lysed in the presence of a solid phase optionally coated with a charge switch material and nuclear material is flocculated/precipitated. Charge switch materials generally comprise a postive charge to bind neg. charged nucleic acids. Genomic DNA can be collected from the precipitate and purified. RNA present in the supernatant can be collected by binding to a solid phase and purified.

AN 2006:31704 HCAPLUS <<LOGINID::20090806>>

DN 144:103508

TI Methods for nucleic acid extraction and purification

IN Baker, Matthew J.; Stevenson, Anthony; Buckels, John

PA Invitrogen Corporation, USA

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006004611	A2	20060112	WO 2005-US22624	20050627
	WO 2006004611	A3	20060928		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	US 20060024712	A1	20060202	US 2005-167907	20050627
PRAI	GB 2004-14302	A	20040625		
	US 2004-582879P	P	20040625		
	GB 2004-22299	A	20041007		

L13 ANSWER 6 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Purification of nucleic acids from solutions by reversible binding of polynucleotides to the surface of a magnetic microparticle

AB The invention relates to methods of separating polynucleotides, such as DNA, RNA and PNA, from solns. containing polynucleotides by reversibly binding the polynucleotides to a solid surface, such as a magnetic microparticle. The invention allows to obtain polynucleotides sufficiently free from contaminants for mol. biol. applications from animal tissues and body fluids.

AN 2005:1028001 HCAPLUS <<LOGINID::20090806>>

DN 143:300280

TI Purification of nucleic acids from solutions by reversible

binding of polynucleotides to the surface of a magnetic microparticle

IN Latham, Gary J.; Fang, Xingwang; Conrad, Richard C.; Kemppainen, Jon A.; Setterquist, Robert A.; Pasloske, Brittan L.

PA Ambion, Inc., USA

SO U.S. Pat. Appl. Publ., 36 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050208510	A1	20050922	US 2004-955974	20040930
	WO 2005089929	A2	20050929	WO 2005-US9189	20050318
	WO 2005089929	A3	20051124		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, US RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1735466	A2	20061227	EP 2005-760857	20050318
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	JP 2007529229	T	20071025	JP 2007-504164	20050318
PRAI	US 2004-554278P	P	20040318		
	US 2004-955974	A2	20040930		
	WO 2005-US9189	W	20050318		

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L13 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Methods for separating unincorporated deoxyribonucleotide triphosphates or salts from DNA or purification of other analytes using coated magnetic hydroxylapatite beads

AB The present invention provides a material for separating an analyte from an undesired constituent, which material comprises a solid phase and a coating, wherein the solid phase is capable of binding the undesired constituent, and wherein the coating covers the exposed surface of the solid phase to an extent that any binding of the solid phase to the analyte is impeded. In particular, it provides methods for separating unincorporated deoxyribonucleotide triphosphates from DNA or purification of other analytes prior to anal. using coated magnetic hydroxylapatite beads.

AN 2005:121095 HCAPLUS <<LOGINID::20090806>>

DN 142:172863

TI Methods for separating unincorporated deoxyribonucleotide triphosphates or salts from DNA or purification of other analytes using coated magnetic hydroxylapatite beads

IN Goldsborough, Andrew

PA Cyclops Genome Sciences Limited, UK

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005012522	A1	20050210	WO 2004-GB3201	20040723
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1649016	A1	20060426	EP 2004-743533	20040723
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2006527993	T	20061214	JP 2006-520900	20040723
US 20080220413	A1	20080911	US 2008-565694	20080324
PRAI GB 2003-17199	A	20030723		
GB 2003-19422	A	20030819		
WO 2004-GB3201	W	20040723		

L13 ANSWER 8 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Locked nucleic acid capture probes for isolation of homopolymeric nucleotide sequences and use in diagnosis of viral infections in humans  
 AB This invention presents methods and use of locked nucleic acid capture probes for isolation of homopolymeric nucleotide sequences and use in diagnosis of viral infections in humans. A method for isolating nucleic acid mols. having a repeating nucleotide sequence or a homopolymeric nucleotide sequence, e.g. a poly A stretch, is described. In particular, the method uses oligomeric capture probes spiked with various amts. of locked nucleic acid (LNA). The invention further describes methods for the isolation of RNA mols., for example polyadenylated mRNA mols., which overcome the problems of rapid RNA degradation during isolation and anal. of such nucleic acid mols. This is of major clin. and diagnostic importance, especially when dealing with RNA viruses, such as retroviruses or when analyzing rare or low-abundant mRNAs or mRNAs from biopsies or tissues enriched with RNases.

AN 2004:203927 HCAPLUS <<LOGINID::20090806>>

DN 140:265567

TI Locked nucleic acid capture probes for isolation of homopolymeric nucleotide sequences and use in diagnosis of viral infections in humans

IN Kauppinen, Sakari; Jacobsen, Nana

PA Exiqon A/S, Den.

SO PCT Int. Appl., 104 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004020575	A2	20040311	WO 2003-IB6354	20030620
	WO 2004020575	A3	20041223		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

AU 2003288474	A1	20040319	AU 2003-288474	20030620
US 20050053942	A1	20050310	US 2003-601140	20030620
EP 1527175	A2	20050504	EP 2003-780549	20030620
EP 1527175	B1	20090527		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 432347	T	20090615	AT 2003-780549	20030620
US 20080096191	A1	20080424	US 2007-893108	20070814
PRAI US 2002-390928P	P	20020624		
US 2003-601140	B1	20030620		
WO 2003-IB6354	W	20030620		

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Compositions and methods for using a solid support to  
 purify RNA  
 AB The invention concerns a method for purifying substantially pure and  
 undegraded RNA from biol. material comprising RNA,  
 comprising the steps of: (a) mixing the biol. material with an RNA  
 Lysing/ Binding Solution buffered at a pH of greater than about 7, the  
 RNA Lysing/Binding Solution comprising an RNA-complexing  
 salt; (b) contacting the mixture to a solid support such  
 that nucleic acids comprising substantially undegraded RNA in  
 the mixture preferentially bind to the solid support;  
 (c) washing the solid support with a series of  
 RNA wash solns. to remove biol. materials other than bound nucleic  
 acids comprising substantially undegraded RNA, wherein the  
 series of wash solns. comprises a first wash comprising alc. and an  
 RNA-complexing salt at a concentration of at least 1 M and a second wash  
 comprising an alc., buffer and an optional chelator; and (d)  
 preferentially eluting the bound substantially undegraded RNA  
 from the solid support with an RNA Elution  
 Solution in order to obtain substantially pure and undegraded RNA.  
 Reagents, methods and kits for the purification of RNA from biol.  
 materials are provided.

AN 2004:80382 HCAPLUS <<LOGINID::20090806>>  
 DN 140:107795  
 TI Compositions and methods for using a solid support to  
 purify RNA  
 IN Bair, Robert Jackson; Heath, Ellen M.; Meehan, Heather; Paulsen, Kim  
 Elayne; Wages, John M.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 974,798.  
 CODEN: USXXCO

DT Patent  
 LA English  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20040019196	A1	20040129	US 2003-418194	20030416
	US 7148343	B2	20061212		
	US 20030073830	A1	20030417	US 2001-974798	20011012
	CA 2463317	A1	20030424	CA 2001-2463317	20011012
	AU 2002211719	A1	20030428	AU 2002-211719	20011012
	AU 2002211719	B2	20070614		
	EP 1438426	A1	20040721	EP 2001-979794	20011012
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
	JP 2005505305	T	20050224	JP 2003-536461	20011012

JP 3979996	B2	20070919		
AU 2004233035	A1	20041104	AU 2004-233035	20040415
CA 2522446	A1	20041104	CA 2004-2522446	20040415
WO 2004094635	A2	20041104	WO 2004-US12033	20040415
WO 2004094635	A3	20041216		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1618194	A2	20060125	EP 2004-760008	20040415
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
JP 2006523463	T	20061019	JP 2006-513124	20040415
US 20050032105	A1	20050210	US 2004-909724	20040802
US 20070043216	A1	20070222	US 2006-589364	20061030
PRAI US 2001-974798	A2	20011012		
WO 2001-US32073	W	20011012		
US 2003-418194	A	20030416		
WO 2004-US12033	W	20040415		
OSC.G 1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)			
RE.CNT 56	THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD			
ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L13 ANSWER 10 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Methods and kits for isolating nucleic acids from biological samples using hydrophilic magnetic particles and chaotrope agents

AB A process for isolating nucleic acids using hydrophilic magnetic particles is provided. The nucleic acid in biol. sample is bound to the magnetic particles in the presence of the chaotrope. The methods also comprises contacting the sample with the nucleic acid binding solid phase in the presence of a liquid phase comprising the chaotrope. The methods also comprises optionally separating the solid phase with the nucleic acid bound thereto from the liquid phase, wherein the solid phase bears acid groups on its surface. The chaotrope comprises a guanidinium salt, urea, or an iodide, chlorate, perchlorate or (iso)thiocyanate.

AN 2003:913301 HCAPLUS <<LOGINID::20090806>>

DN 139:377555

TI Methods and kits for isolating nucleic acids from biological samples using hydrophilic magnetic particles and chaotrope agents

IN Deggerdal, Arne; Skagestad, Vidar

PA Qiagen A/S, Norway

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003095646	A1	20031120	WO 2003-IB1822	20030509
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,					

PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,  
 UG, US, UZ, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 AU 2003230070 A1 20031111 AU 2003-230070 20030509  
 PRAI GB 2002-10766 A 20020510  
 WO 2003-IB1822 W 20030509

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Methods, reagents and kits for isolating RNA from environmental  
or biological samples  
 AB Reagents, methods and kits for the purification of RNA from biol. or  
environmental samples are provided. The method comprises mixing said  
material with an RNA binding solution buffered at a pH of greater  
than 7 wherein the RNA binding solution comprises an RNA  
complexing salt from strong chaotropic agents. RNA is  
bound to non-silica solid support selected from  
cellulose, cellulose acetate, nitrocellulose, nylon, polyester,  
polyethersulfone, polyolefin, or polyvinylidene fluoride. The non-silica  
solid support is contained in a vessel such as  
centrifuge tubes, spin tubes, syringes, cartridges, chambers, multiple  
well plates and test tubes.  
 AN 2003:300642 HCAPLUS <<LOGINID::20090806>>  
 DN 138:317132  
 TI Methods, reagents and kits for isolating RNA from environmental  
or biological samples  
 IN Heath, Ellen M.; Wages, John M.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 14 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20030073830	A1	20030417	US 2001-974798	20011012
	CA 2463317	A1	20030424	CA 2001-2463317	20011012
	WO 2003033739	A1	20030424	WO 2001-US32073	20011012
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002211719	A1	20030428	AU 2002-211719	20011012
	AU 2002211719	B2	20070614		
	EP 1438426	A1	20040721	EP 2001-979794	20011012
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2005505305	T	20050224	JP 2003-536461	20011012
JP 3979996	B2	20070919			
US 20040019196	A1	20040129	US 2003-418194	20030416	
US 7148343	B2	20061212			

US 20050032105	A1	20050210	US 2004-909724	20040802
US 20070043216	A1	20070222	US 2006-589364	20061030
PRAI US 2001-974798	A	20011012		
WO 2001-US32073	W	20011012		
US 2003-418194	A2	20030416		

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L13 ANSWER 12 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads  
 AB The invention includes reagents and methods for the isolation of nucleic acids. The reagents described herein contain a nucleic acid precipitating agent and a solid phase carrier. The reagents can optionally be formulated to cause the lysis of a cell. These reagents can be used to isolate a target nucleic acid mol. from a cell or a solution containing a mixture of different size nucleic acid mols. In a preferred embodiment plasmid DNA from bacterial cells are purified by precipitation with 1-4% polyethylene glycol (mol. weight of 8000) and 0.5M salt concentration. The DNA is further purified by reversible binding to paramagnetic beads that are coated with amine or encapsulated carboxyl groups. The first reagent allows purification of DNA greater than 10 kb, while a second round of purification allows purification of DNA greater than 2.4 kb from a

mixture of nucleic acids 7% polyethylene glycol. Magnetic fields of about 1000 G are applied to the wells of a microtiter plate using a magnetic plate holder containing an N35 magnet for removal of paramagnetic beads following DNA purification. The disclosed reagents and methods provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 2002:539860 HCAPLUS <<LOGINID::20090806>>

DN 137:89428

TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads

IN McKernan, Kevin J.

PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002055727	A2	20020718	WO 2002-US353	20020109
	WO 2002055727	A3	20021003		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

CA 2433746	A1	20020718	CA 2002-2433746	20020109
AU 2002239826	A1	20020724	AU 2002-239826	20020109
US 20020106686	A1	20020808	US 2002-42923	20020109
EP 1349951	A2	20031008	EP 2002-705692	20020109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 20060024701	A1	20060202	US 2005-126775	20050511
PRAI US 2001-260774P	P	20010109		
US 2002-42923	B1	20020109		
WO 2002-US353	W	20020109		
OSC.G 5	THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)			
RE.CNT 4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD			
ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L13 ANSWER 13 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support  
 AB The present invention relates to a method of isolating nucleic acid from a blood sample. The method involves selectively isolating leukocytes from said sample by binding said leukocytes to a solid support containing a binding partner specific for the leukocyte, for example an antibody. The antibody can bind an antigen selected from one of more of the following: HLA-I, CD11a, CD18, CD45, CD46, CD50, CD82, CD162, CD5 and CD15 and a specific example shows a combination of CD45 and CD15. The said leukocytes are lysed in detergents to release nucleic acids which are subsequently bound to a second solid support which is neg. charged. Kits for isolating nucleic acid from samples form further embodiments of the invention.  
 AN 2001:904506 HCAPLUS <<LOGINID::20090806>>  
 DN 136:15912  
 TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support  
 IN Bergholtz, Stine; Korsnes, Lars; Andreassen, Jack  
 PA Dynal Biotech Asa, Norway; Jones, Elizabeth Louise  
 SO PCT Int. Appl., 51 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001094572	A1	20011213	WO 2001-GB2472	20010605
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2410888	A1	20011213	CA 2001-2410888	20010605
	CA 2410888	C	20080916		
	EP 1290155	A1	20030312	EP 2001-934205	20010605
	EP 1290155	B1	20060809		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	AU 2001260507	B2	20060831	AU 2001-260507	20010605
	AT 335815	T	20060915	AT 2001-934205	20010605
	ES 2269399	T3	20070401	ES 2001-934205	20010605
	US 20030180754	A1	20030925	US 2003-297301	20030430

US 20080293035	A1	20081127	US 2008-98411	20080404
PRAI GB 2000-13658	A	20000605		
WO 2001-GB2472	W	20010605		
US 2003-297301	B1	20030430		

OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Methods for detecting and measuring spliced nucleic acids and method of cytoplasmic nucleic acid preparation  
 AB A simplified method for preparing a biol. sample to release cytoplasmic nucleic acid, preferably spliced mRNA, suitable for amplification, while minimizing the release of nuclear genetic material is disclosed. A buffer containing a soluble salt with ionic strength of particular range and a non-ionic detergent are used to lyse the cells. mRNA is then purified by contacting the sample with a solid support joined to an immobilized oligonucleotide which would form stable hybridization complex with the mRNA. Immobilized oligonucleotide preferably contains a poly-T sequence. A method of detecting and measuring the amount of fusion nucleic acid, notably spliced mRNA present in the sample, following nucleic acid amplification, is also disclosed. A fusion nucleic acid to be detected contain a splice junction site, and primers designed to have sequences complementary to and around the splice-junction site are used to amplify the nucleic acid. The amplified nucleic acid strand is detected with an oligonucleotide probe which specifically hybridizes to the amplified strand. Nucleic acid of chronic myelogenous leukemia patient and that resulting from bcr-abl translocation were detected by the method.

AN 2000:85055 HCAPLUS <>LOGINID::20090806>>

DN 132:147583

TI Methods for detecting and measuring spliced nucleic acids and method of cytoplasmic nucleic acid preparation

IN Harvey, Richard C.; Eastman, Paul S.

PA Gen-Probe Incorporated, USA

SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000005418	A1	20000203	WO 1999-US16832	19990723
	W: AU, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
	US 6849400	B1	20050201	US 1998-121239	19980723
	CA 2337106	A1	20000203	CA 1999-2337106	19990723
	AU 9951288	A	20000214	AU 1999-51288	19990723
	AU 767568	B2	20031113		
	EP 1109932	A1	20010627	EP 1999-935912	19990723
	EP 1109932	B1	20040616		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002521037	T	20020716	JP 2000-561364	19990723
	AT 269417	T	20040715	AT 1999-935912	19990723
	ES 2221750	T3	20050101	ES 1999-935912	19990723
PRAI	US 1998-121239	A	19980723		
	US 1997-53509P	P	19970723		
	WO 1999-US16832	W	19990723		

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L13 ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Solid phase technique for selectively isolating nucleic acids  
 AB A method of isolating target nucleic acid mols. from a solution comprising a mixture of different size nucleic acid mols., in the presence or absence of other biomols., by selectively facilitating the adsorption of a particular species of nucleic acid mol. to the functional group-coated surface of magnetically responsive paramagnetic microparticles is disclosed. Separation is accomplished by manipulating the ionic strength and polyalkylene glycol concentration of the solution to selectively precipitate, and reversibly adsorb, the target species of nucleic acid mol., characterized by a particular mol. size, to paramagnetic microparticles, the surfaces of which act as a bioaffinity adsorbent for the nucleic acids. The target nucleic acid is isolated from the starting mixture based on mol. size and through the removal of magnetic beads to which the target nucleic acid mols. have been adsorbed. The disclosed method provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.  
 AN 1999:736906 HCAPLUS <<LOGINID::20090806>>  
 DN 131:334336  
 TI Solid phase technique for selectively isolating nucleic acids  
 IN McKernan, Kevin; McEwan, Paul; Morrison, William  
 PA Whitehead Institute for Biomedical Research, USA  
 SO PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1
 

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9958664	A1	19991118	WO 1999-US10572	19990513
	W: CA, JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6534262	B1	20030318	US 1999-311317	19990513
	US 20030235839	A1	20031225	US 2003-346714	20030116
	US 20040214175	A9	20041028		
	US 20060003357	A1	20060105	US 2005-129218	20050513
PRAI	US 1998-85480P	P	19980514		
	US 1999-121779P	P	19990226		
	US 1999-311317	A1	19990513		
	US 2003-346714	A3	20030116		

 OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

L13 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Methods and compositions for isolating nucleic acids  
 AB Compns. and methods are disclosed for isolating nucleic acids from biol. tissues and cells (including tumor cells) and for tissue/cell solubilization for other mol. biol. uses, wherein the compns. comprise, in part, novel combinations of chaotropic agents and aromatic alcs. which act synergistically to effect better tissue/protein solubilization. The inventive compns. further include aprotic solvents for deactivation of RNases and denaturation of proteins, as well as detergents for enhancing cell lysis and nucleoprotein dissociation. The inventive methods also comprise the use of a centrifuge, a solid-support matrix, and a

microporous membrane for final isolation of the precipitated nucleic acids, resulting in high yield and purity of the precipitated nucleic acid.

AN 1997:400479 HCPLUS <>LOGINID::20090806>>  
 DN 127:78238  
 OREF 127:14901a,14904a  
 TI Methods and compositions for isolating nucleic acids  
 IN Wiggins, James C.  
 PA USA  
 SO U.S., 15 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5637687	A	19970610	US 1993-115184	19930831

PRAI US 1993-115184 19930831  
 OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)  
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 17 OF 19 HCPLUS COPYRIGHT 2009 ACS on STN  
 TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components  
 AB The present invention provides a method of isolating nucleic acid from a sample, said method comprising contacting said sample with a detergent and a solid support, whereby soluble nucleic acid in said sample is bound to the support, and separating said support with bound nucleic acid from the sample. Where the method of the invention is used to isolate DNA, it may conveniently be coupled with a further step to isolate RNA from the same sample.

AN 1996:458048 HCPLUS <>LOGINID::20090806>>  
 DN 125:107039  
 OREF 125:19863a,19866a  
 TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components  
 IN Deggerdal, Arne Helge; Larsen, Frank  
 PA Dynal A/s, Norway; Dzieglewska, Hanna Eva  
 SO PCT Int. Appl., 53 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9618731	A2	19960620	WO 1995-GB2893	19951212
WO 9618731	A3	19960912		
W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2207608	A1	19960620	CA 1995-2207608	19951212
CA 2207608	C	20090407		
AU 9641829	A	19960703	AU 1996-41829	19951212

AU 706211	B2	19990610		
EP 796327	A2	19970924	EP 1995-940351	19951212
EP 796327	B1	20040728		
R: AT, BE, CH, DE, FR, GB, IT, LI, SE				
JP 11501504	T	19990209	JP 1996-518463	19951212
JP 3787354	B2	20060621		
AT 272110	T	20040815	AT 1995-940351	19951212
US 20040215011	A1	20041028	US 1997-849686	19970821
US 20060058519	A1	20060316	US 2005-234001	20050923
US 7173124	B2	20070206		
US 20070190559	A1	20070816	US 2007-671426	20070205
US 20080300396	A1	20081204	US 2008-54332	20080324
US 20090068724	A1	20090312	US 2008-130926	20080530
US 20090149646	A1	20090611	US 2008-130959	20080530
PRAI GB 1994-25138	A	19941212		
WO 1995-GB2893	W	19951212		
US 1997-849686	A1	19970821		
US 2005-234001	A1	20050923		
US 2007-671426	B1	20070205		
US 2008-54332	A1	20080324		

OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)  
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Purification of nucleic acids from solution without precipitation by binding to a solid phase  
 AB A method of separating polynucleotides, such as DNA, RNA and PNA, from solution by reversibly and non-specifically binding them to a solid surface, such as a magnetic microparticle, with a functional group-coated surface is disclosed. The salt and polyalkylene glycol concentration of the solution is adjusted to levels which result in polynucleotide binding to the magnetic microparticles. The magnetic microparticles with bound polynucleotides are separated from the solution and the polynucleotides are eluted from the magnetic microparticles. The method is generally applicable to large and small nucleic acids and works with crude preps. such as cleared lysates. Material can be selectively eluted from the particles by controlling the ionic strength of the elution buffer.

AN 1996:350414 HCAPLUS <<LOGINID::20090806>>

DN 125:5056

OREF 125:1147a,1150a

TI Purification of nucleic acids from solution without precipitation by binding to a solid phase

IN Hawkins, Trevor

PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA English

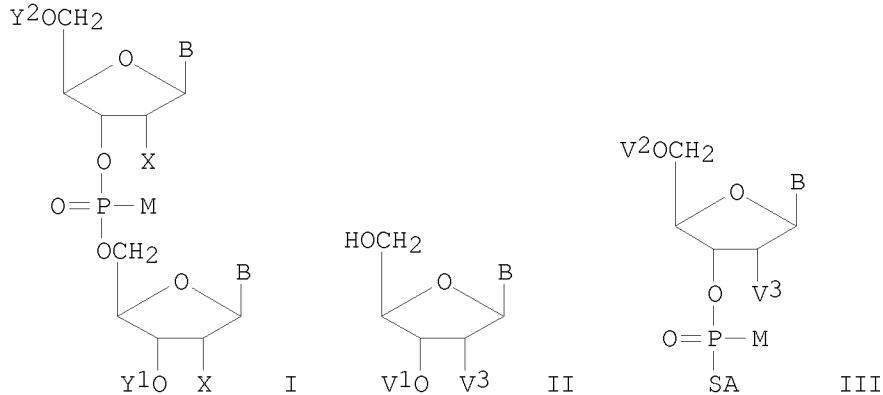
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9609379	A1	19960328	WO 1995-US11839	19950919
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5705628	A	19980106	US 1994-309267	19940920
	IL 115352	A	20090211	IL 1995-115352	19950919
	US 5898071	A	19990427	US 1998-2412	19980102
PRAI	US 1994-309267	A	19940920		

OSC.G 29 THERE ARE 29 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS)  
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 19 OF 19 HCPLUS COPYRIGHT 2009 ACS on STN  
 TI Pentavalent synthesis of oligonucleotides containing stereospecific alkylphosphonates and arylphosphonates  
 GI



AB The present invention provides a method for making R stereospecific alkyl- and aryl-phosphonate linkages between nucleotides. These methods can be used for automated synthesis of oligonucleotides having sequential R stereospecific alkyl- and aryl-phosphonate linkages. The present invention is also directed to the oligonucleotides having several sequential R phosphonate linkages which were produced by the subject methods. Moreover, the present invention provides methods for using the subject oligonucleotides, including methods for regulating the biosynthesis of a DNA, and RNA or a protein and methods for detecting and isolating complementary nucleic acid targets. Title oligonucleotides [I; Y1 = H, phosphate, V1; Y2 = H, phosphate, V2; X = OH, V3; M = alkyl, cycloalkyl, thioxo, etc.; B = (un)substituted purine or pyrimidine residue; V1 = protecting group, solid support, or phosphate attached to the penultimate nucleotide of said oligonucleotide; V2 = protecting group; V3 = H, O-Y3; Y3 = alkyl protecting group; A = activating group] and their intermediates are prepared E.g., 5'-(dimethoxytrityl)thymidyl 3'-methylphosphonoamidate was protected by cyanoethylation in the presence of 4-(N,N-diethylamino)pyridine and (CF<sub>3</sub>CO)<sub>2</sub>O at room temperature to give 5'-(dimethoxytrityl)thymidyl 3'-[2-cyanoethyl methylphosphonate], whose oxidation with sulfur (S<sub>8</sub>) in the presence of MeCN gave the diastereomers of 5'-(dimethoxytrityl)thymidyl 3'-[2-cyanoethyl methylphosphonothioate], which were separated and purified by HPLC; cyanoethyl groups were removed with concentrated NH<sub>4</sub>OH in EtOH, the deprotected diastereomers were then purified by silica HPLC and the ammonium cation was replaced with Li<sup>+</sup> by using a Dowex 50W + 2 exchange column to yield the lithium salts of sep. Sp- and Rp-stereoisomers of 5'-(dimethoxytrityl)thymidyl 3'-methylphosphonothioate. Sp- and Rp-stereoisomers prepared as above were stable and were separated by ion exchange chromatog. or by HPLC using anhydrous or aqueous solvents. The Sp-stereoisomer is reacted with an activator, e.g., 2-chloro-N-methylpyridinium, the intermediate (with retention of configuration) then undergoes an S<sub>N</sub>2 replacement reaction with a 5'-unprotected nucleoside to give the Rp-configuration dinucleotide; the

displaced 2-thio-N-methylpyridinium mol. is stabilized by resonance tautomerization and does not react with the phosphorus to cause epimerization of the R configuration. A compartmentalized kit for producing a polynucleotide chain of an oligonucleotide having at least 5 sequential R-alkylphosphonate or R-arylphosphonate linkages are claimed. These methods may be used in correcting genetic disorders, e.g., Alzheimer's disease, by inhibiting the production of mutants or over-produced proteins.

AN 1994:409934 HCAPLUS <<LOGINID::20090806>>  
DN 121:9934  
OREF 121:2104h,2105a  
TI Pentavalent synthesis of oligonucleotides containing stereospecific alkylphosphonates and arylphosphonates  
IN Wickstrom, Eric; Lebedev, Alexander V.  
PA Research Corp. Technologies, Inc., USA  
SO PCT Int. Appl., 233 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9400473	A2	19940106	WO 1993-US6277	19930630
	WO 9400473	A3	19940217		
	W: AU, CA, JP, KR				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9346611	A	19940124	AU 1993-46611	19930630
PRAI	US 1992-907771	A	19920630		
	WO 1993-US6277	A	19930630		
OS	MARPAT 121:9934				
RE.CNT 3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				